

Message Text

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SUBJ: TARBELA DAM, WORLD BANK REPORT

1. IN THE INTEREST OF RAPID TRANSMITTAL TO WASHINGTON, COPIES OF THE THIRD SPECIAL REPORT BY THE ADMINISTRATOR (IBRD) ON TARBELA DAM PROJECT DATED MARCH 3, HAVE BEEN AIR POUCHED DIRECTLY TO GORDON JONES, NEA/PAB AND AID MCCLOSKEY. THIS REPORT IS PREPARED FOR THE MEETING OF THE TARBELA AND INDUS FUND GROUPS ON APRIL 10 AND MAY BE AVAILABLE IN WASHINGTON.

2. REPORT LISTS SEVERAL AS YET UNSOLVED PROBLEMS OR POTENTIAL PROBLEMS. (A) THE FLOW OF WATER INTO THE FOUNDATION OF THE BROKEN SECTION OF TUNNEL TWO SUGGESTS THAT OTHER EXTENSIVE CAVITIES MAY EXIST IN THE SUGARY LIMESTONE ALONG AND UNDER TUNNELS ONE AND TWO. CONTRACTOR HAS ENGAGED DRILLING EXPERTS TO TEST THIS POSSIBILITY AND IF CAVITIES ARE FOUND A GROUTING STRATEGY WILL BE DESIGNED. (B) A METHOD OF TESTING THE IMPERVIOUS BLANKET UPSTREAM OF THE DAM HAS BEEN DEVELOPED BUT IF THESE NEW TECHNIQUES ARE UNSUCCESSFUL IT MAY BE NECESSARY TO EMPTY THE RESERVOIR NEXT LOW WATER SEASON TO INSPECT AND POSSIBLY REPAIR THE BLANKET. (C) THE REPAIR OF DAMAGED STEEL LINING ON OUTLET END OF TUNNEL THREE WAS NECESSARILY EXPEDIENT SOLUTION. MORE LINING

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ANCHORING WILL BE DESIRABLE, THERE ARE SOME INDICATIONS OF

UNDESIRABLE CONDITIONS IN SLUICEWAYS OF TUNNELS THREE AND FOUR AND THESE OUTLETS REQUIRE LONG TIME USE AND OBSERVATION BEFORE LABELED SATISFACTORY. (D) EVEN WITH THE MAIN SERVICE GATES NOW BEING INSTALLED, CONTROL DEVICES ON TUNNELS ONE AND TWO ARE NOT INTENDED FOR RAPID DRAWDOWN SIMILAR TO THE EMERGENCY LAST FALL. TUNNELS THREE AND FOUR RAISE SIMILAR QUESTIONS AND THEREFORE EMERGENCY DRAWDOWN REMAINS A HAZARD.

3. COSTS. PROGRESS ON REPAIRS AND ACCESS TO TUNNEL ONE HAVE MADE A CLOSER COST ESTIMATE POSSIBLE. TOTAL REPAIRS AND ADDITIONAL WORK NOW ESTIMATED BY IBRD AT US \$59 MILLION, OF WHICH US \$42 MILLION IN FX. REPAIR PORTION ACCOUNT FOR US \$32 MILLION WITH FX COMPONENT US \$23 MILLION. ADDITIONAL WORKS BELIEVED NECESSARY ARE ESTIMATED AT \$27 MILLION WITH \$19 MILLION FX.

4. SCHEDULE. RESERVOIR WAS RAISED TO LEVEL OF TUNNEL THREE AND FOUR INTAKE BEGINNING FEB. 2 WHERE IT WILL BE MAINTAINED UNTIL GENERAL RAISE IN LEVEL STARTS IN MAY. SPILLWAY ELEVATION WILL BE REACHED IN AUGUST. IN SEPT. 1975 SUFFICIENT INFO WILL BE AVAILABLE TO REACH DECISION ON COMMENCEMENT OF POWER MENIFOLD FOR TUNNEL ONE. THERE IS A CHANCE THAT FIRST POWER MIGHT BE PRODUCED IN AUGUST 1976.
BYROADE

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